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FIG. 1A

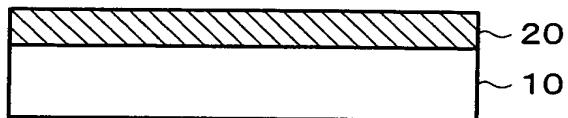


FIG. 1B

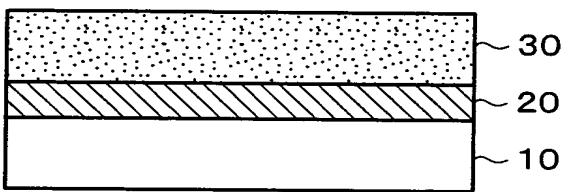


FIG. 1C

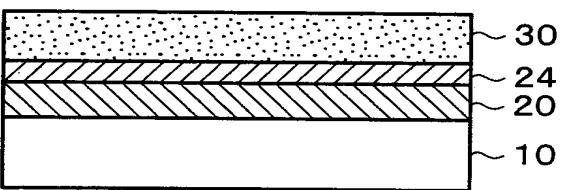


FIG. 1D

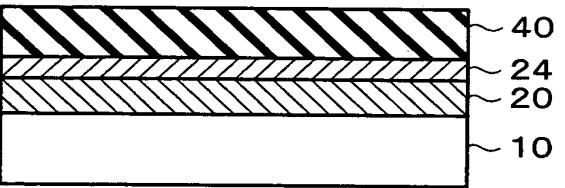


FIG. 1E

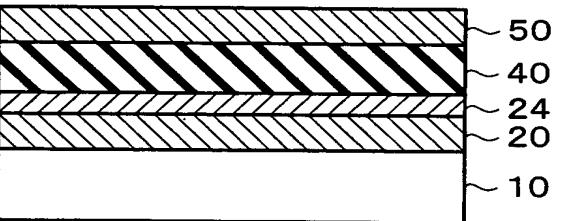


FIG. 2

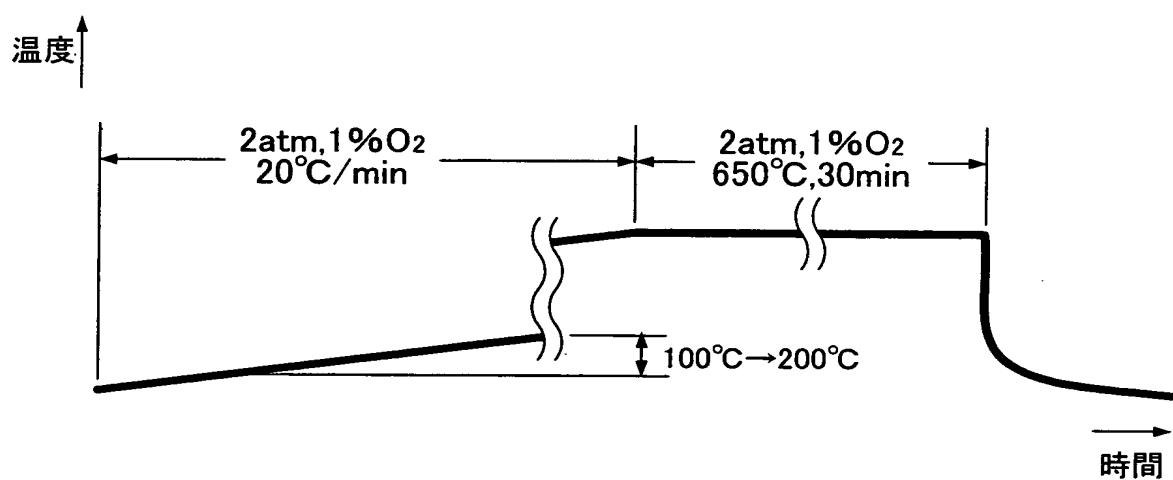
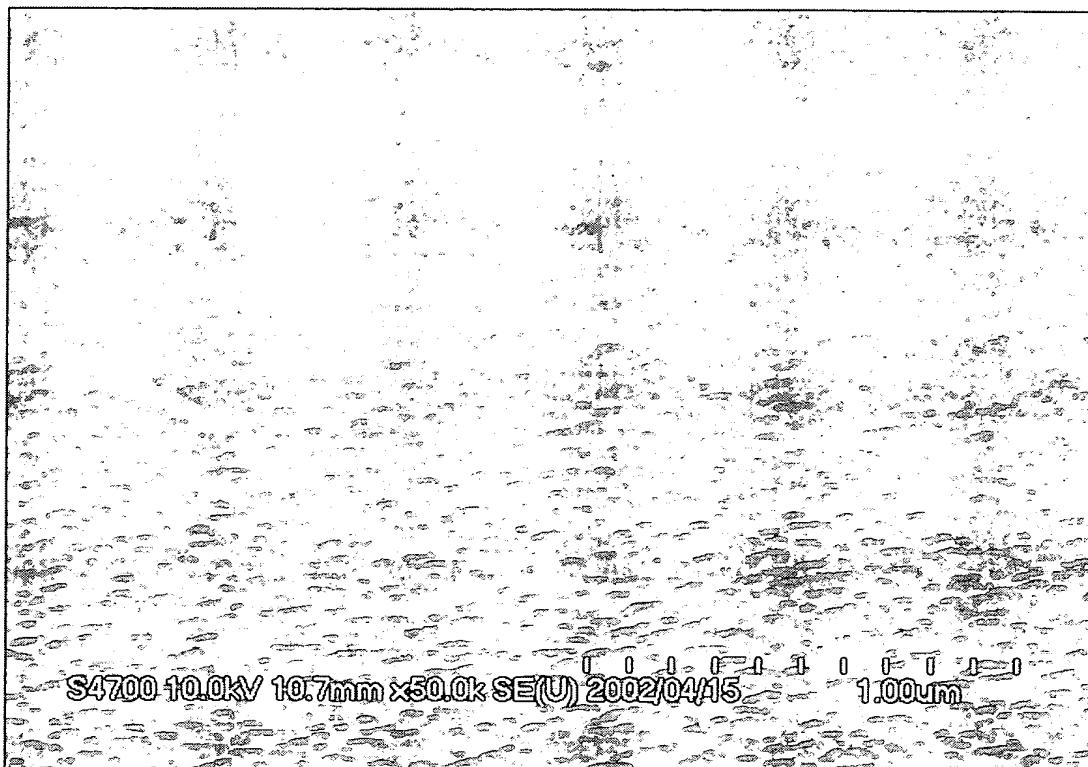


FIG. 3



平均粒径:50mn

FIG. 4

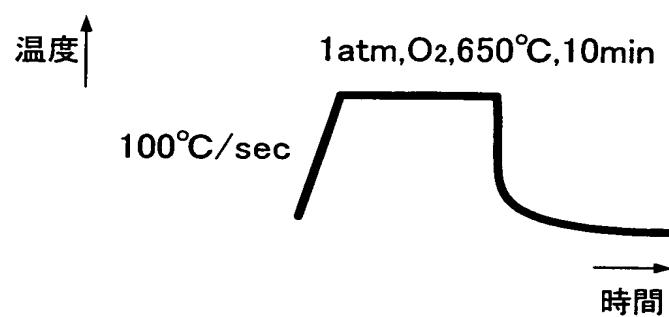


FIG. 5A

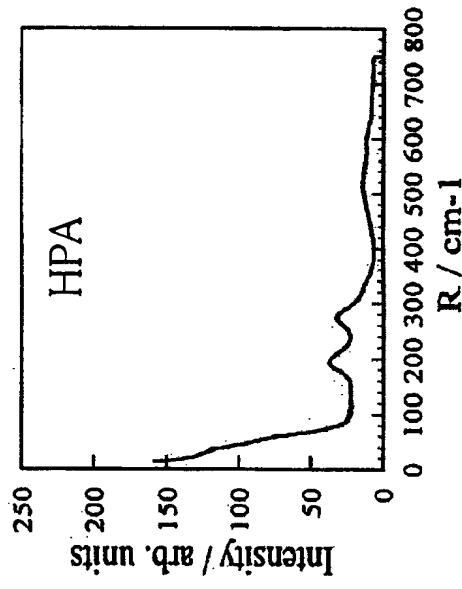


FIG. 5C

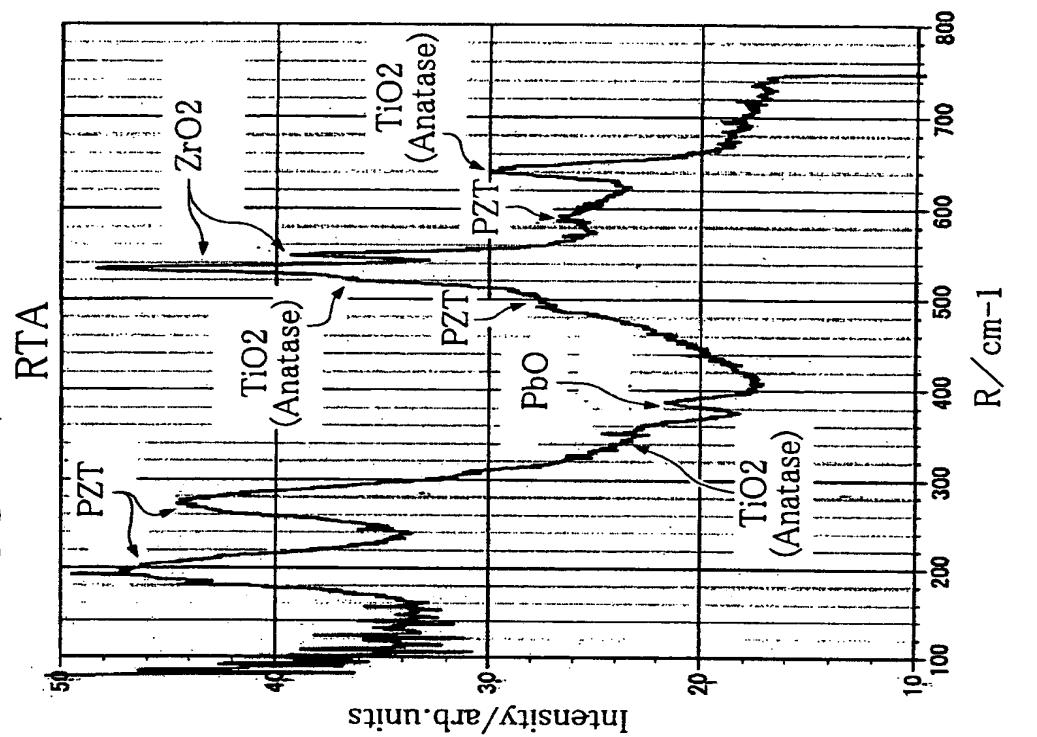


FIG. 5B

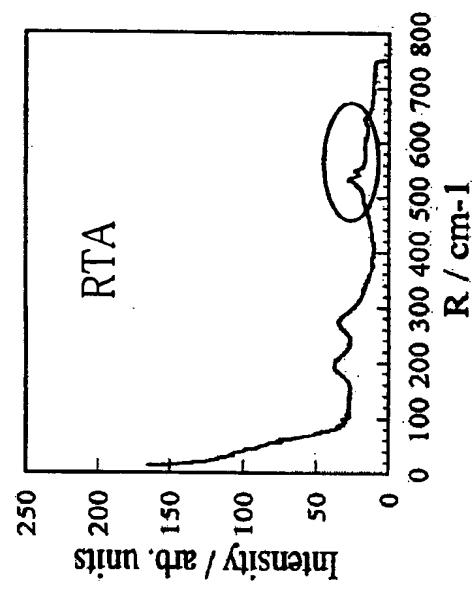


FIG. 6

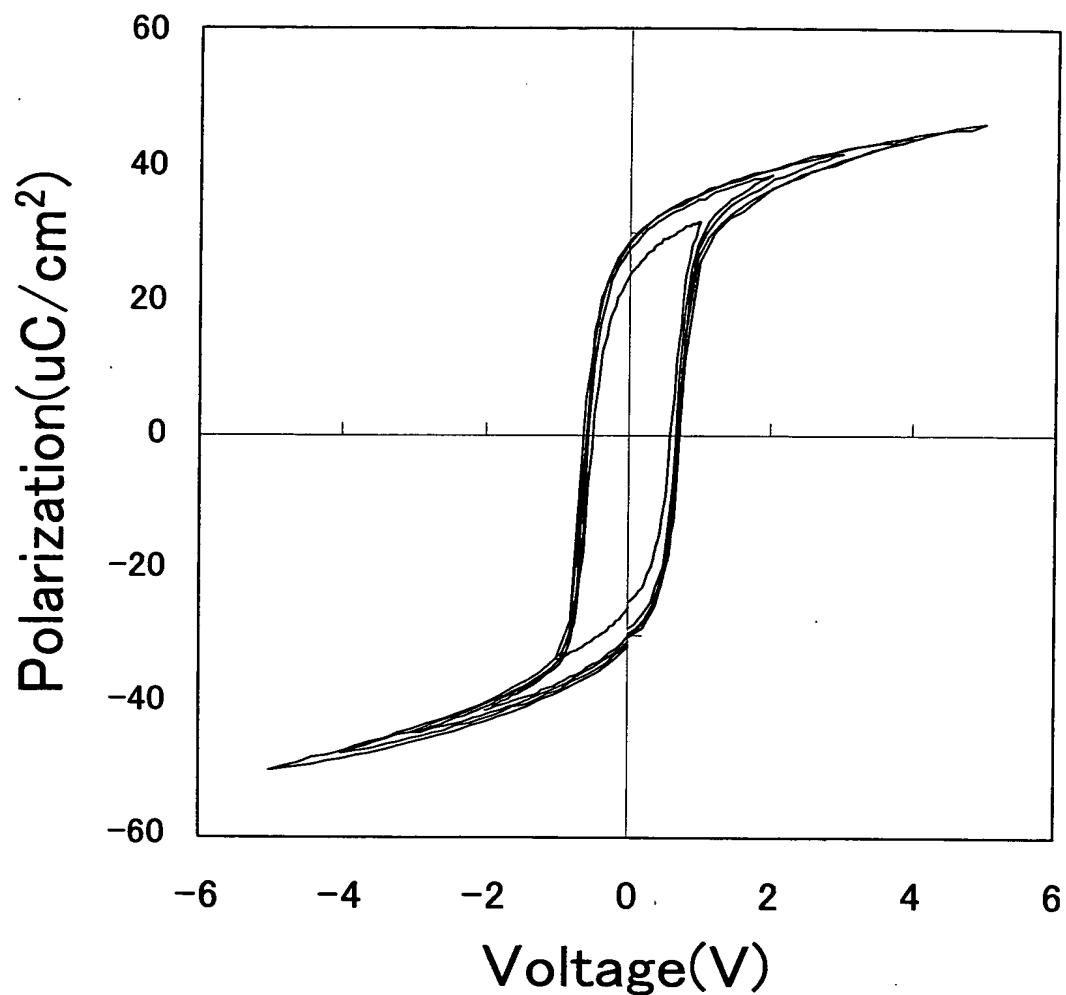


FIG. 7A

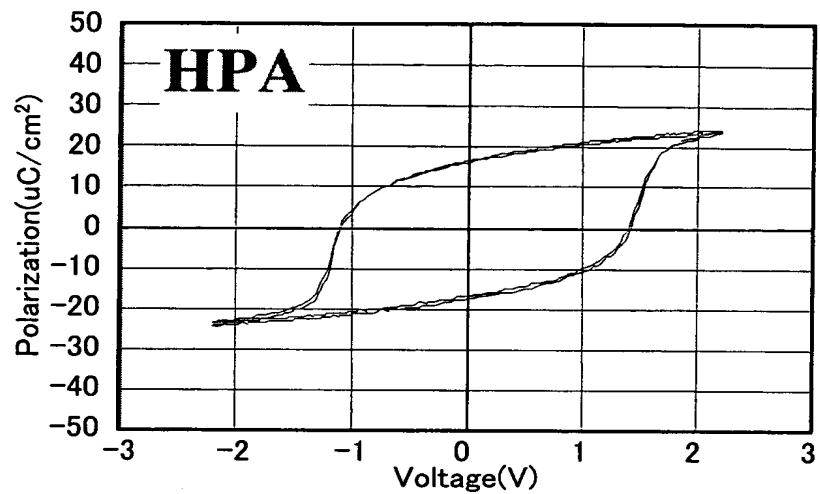


FIG. 7B

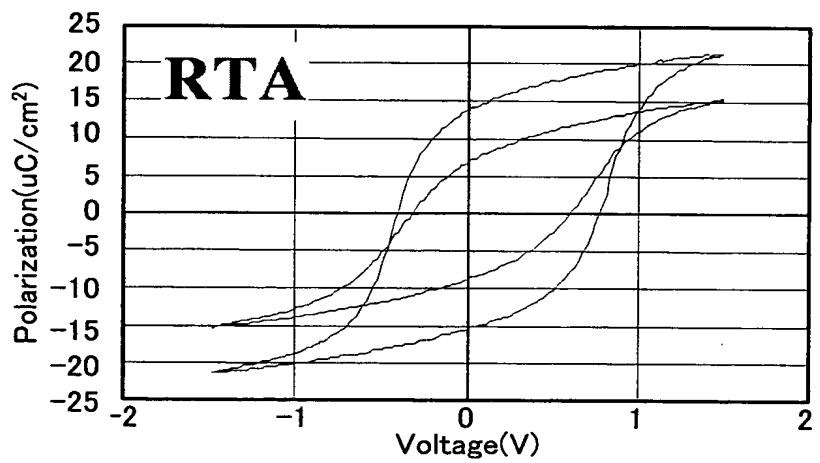


FIG. 8A

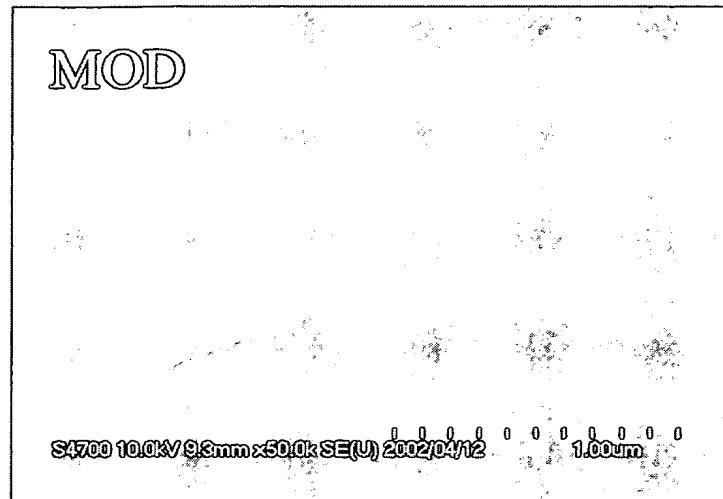


FIG. 8B



FIG. 8C

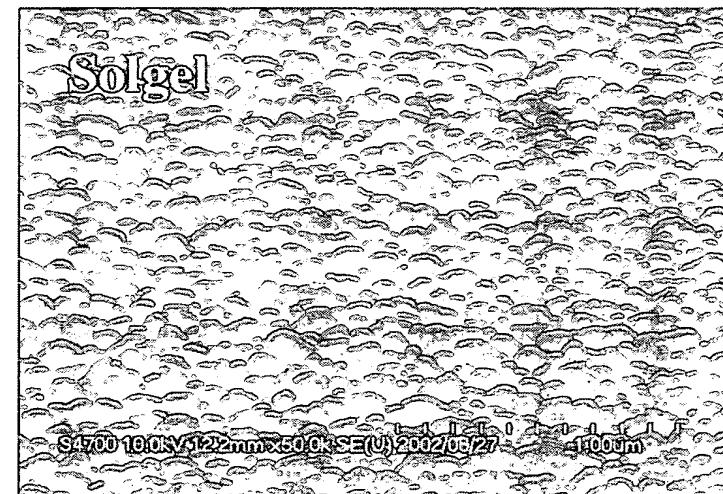
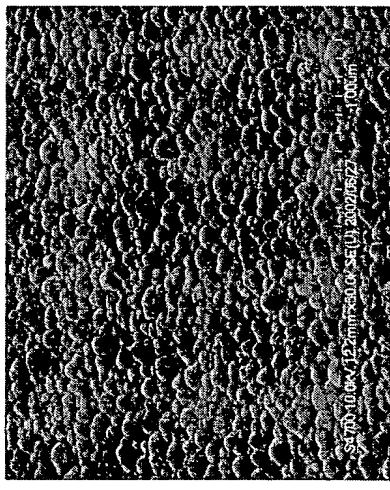
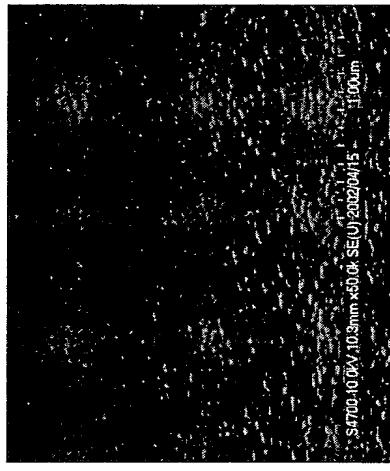


FIG. 9A



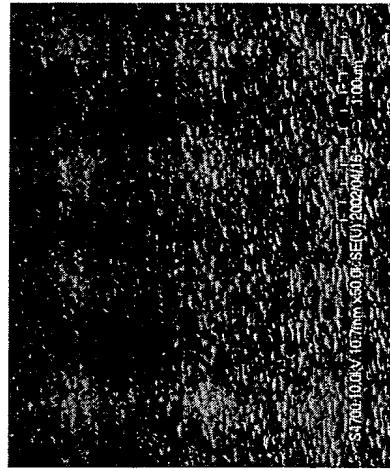
Solgelのみ
平均粒径 : 100nm

FIG. 9B



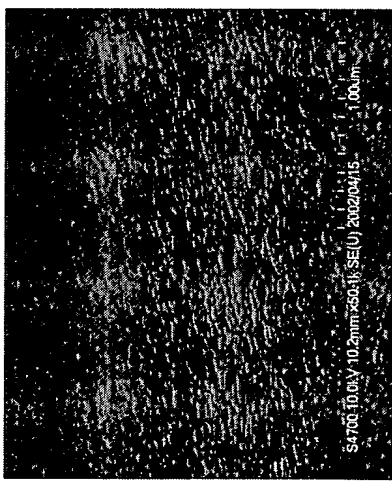
Solgel:MOD=2:1
平均粒径 : 30nm

FIG. 9C



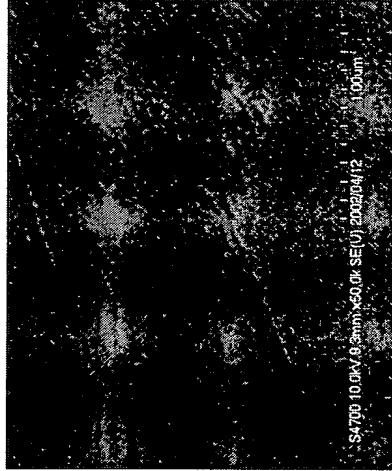
Solgel:MOD=1:1
平均粒径 : 50nm

FIG. 9D



Solgel:MOD=1:2
平均粒径 : 70nm

FIG. 9E



MODのみ
平均粒径 : 2 μ m

FIG. 10A

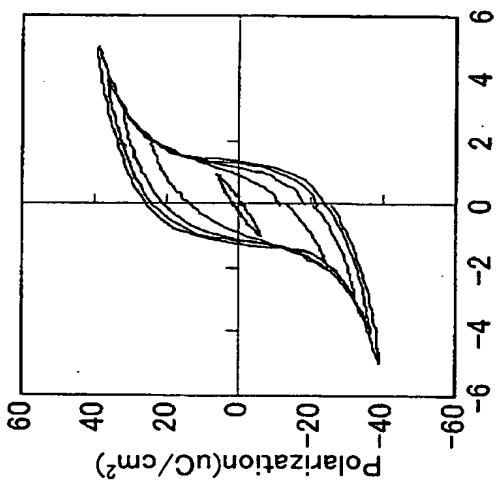
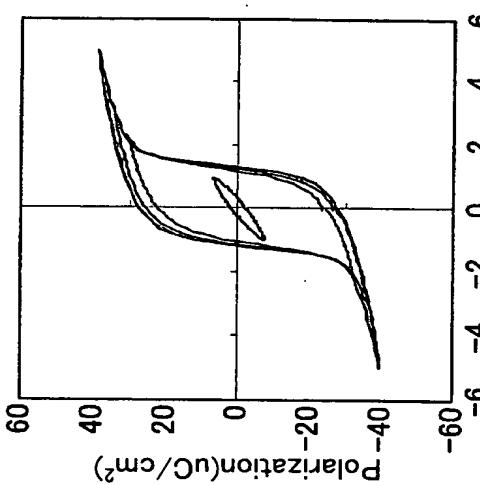
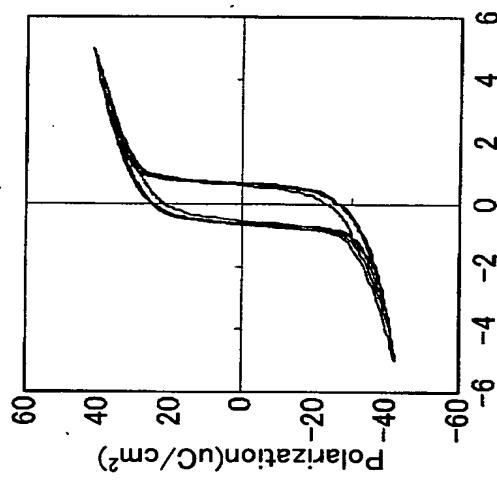


FIG. 10D



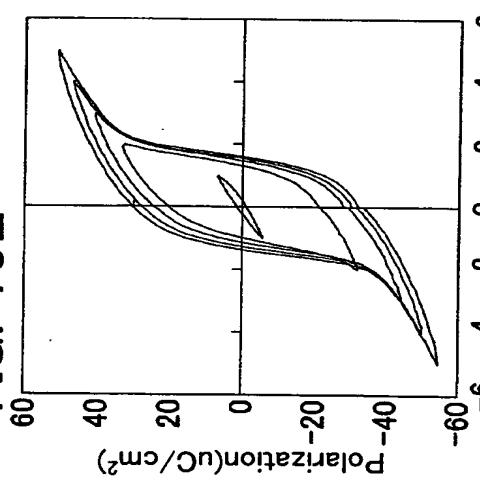
Solgel : MOD = 1 : 2

FIG. 10B



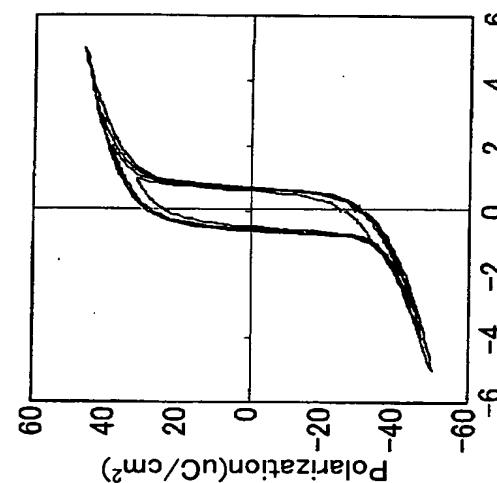
Solgel : MOD = 2 : 1

FIG. 10E



Solgel : MOD = 2 : 1

FIG. 10C



Solgel : MOD = 1 : 1

FIG. 11A

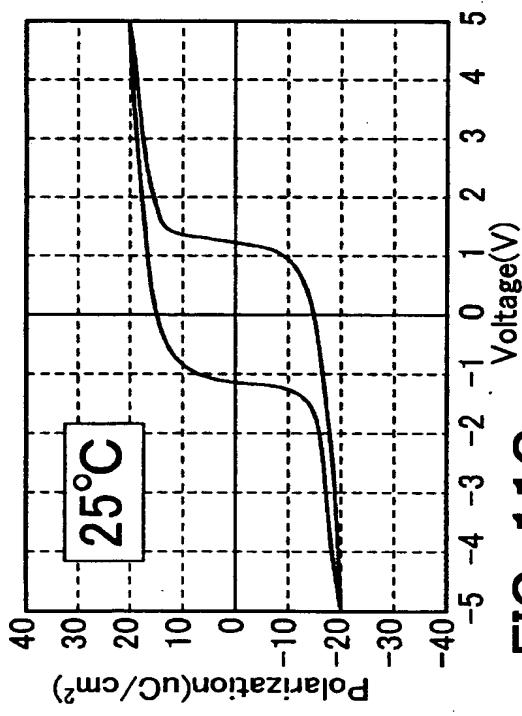


FIG. 11B

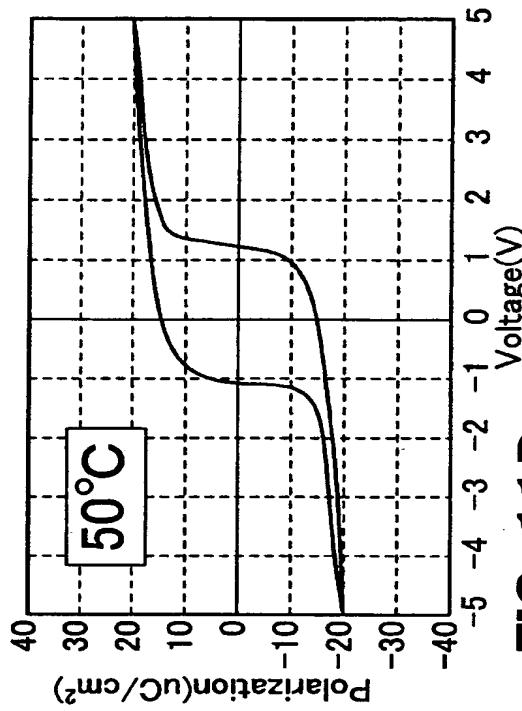


FIG. 11C

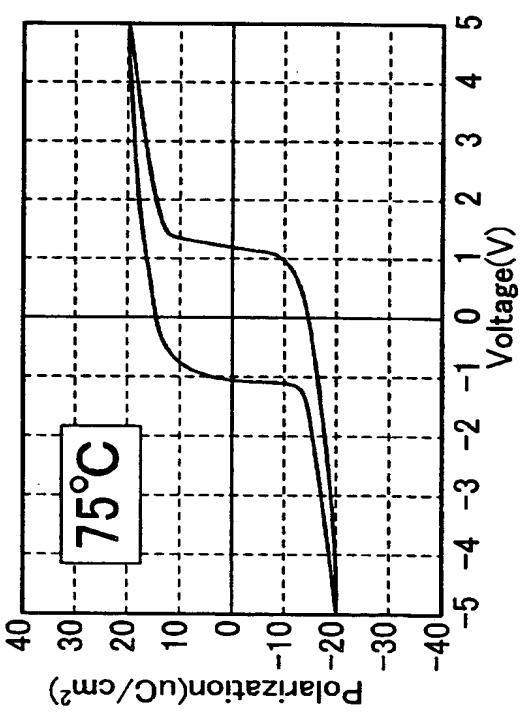


FIG. 11D

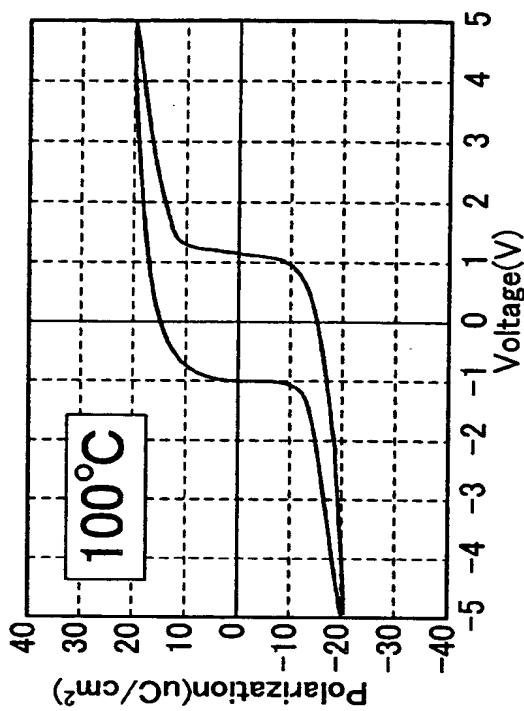


FIG. 12

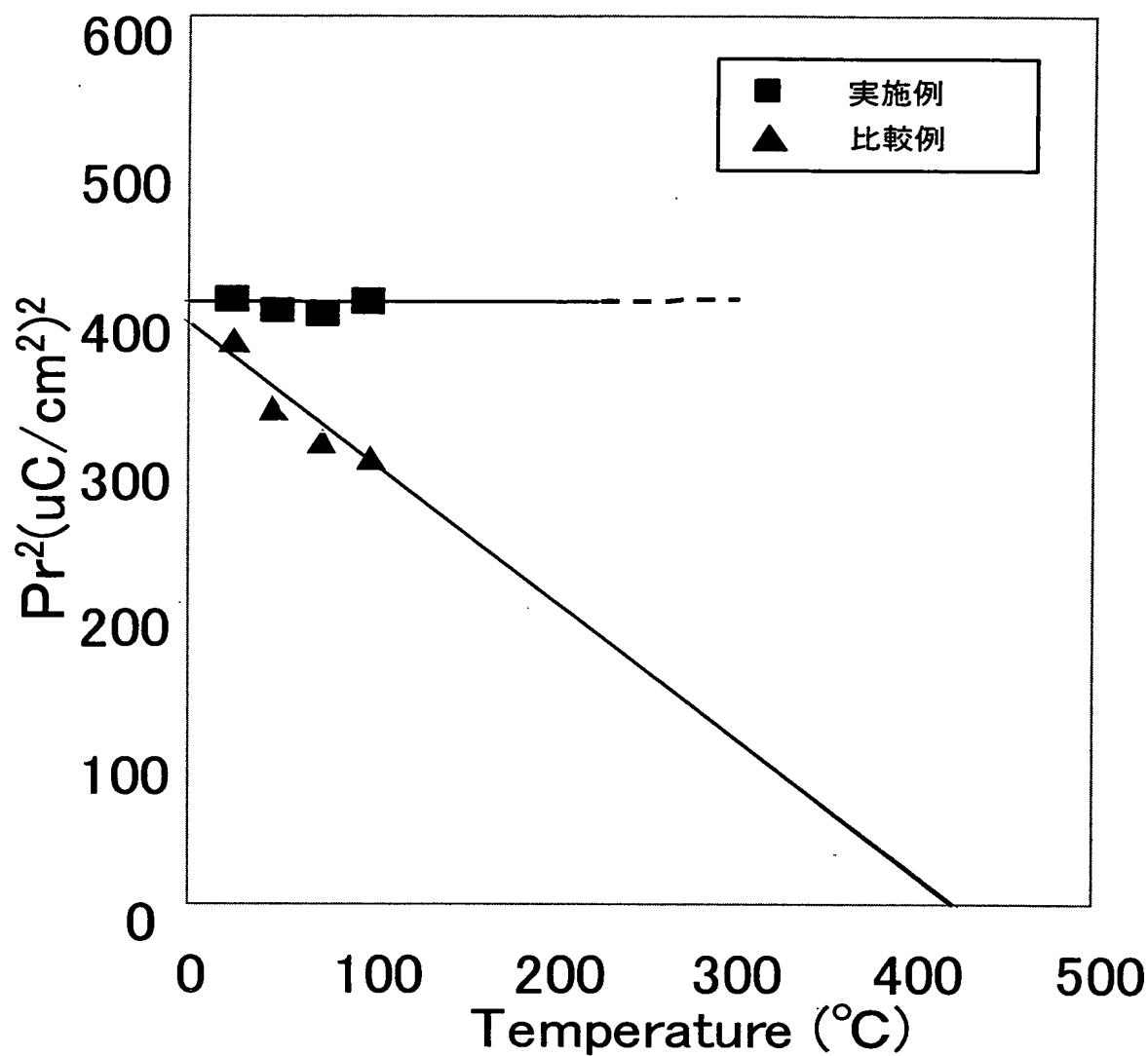


FIG. 13A
MOD

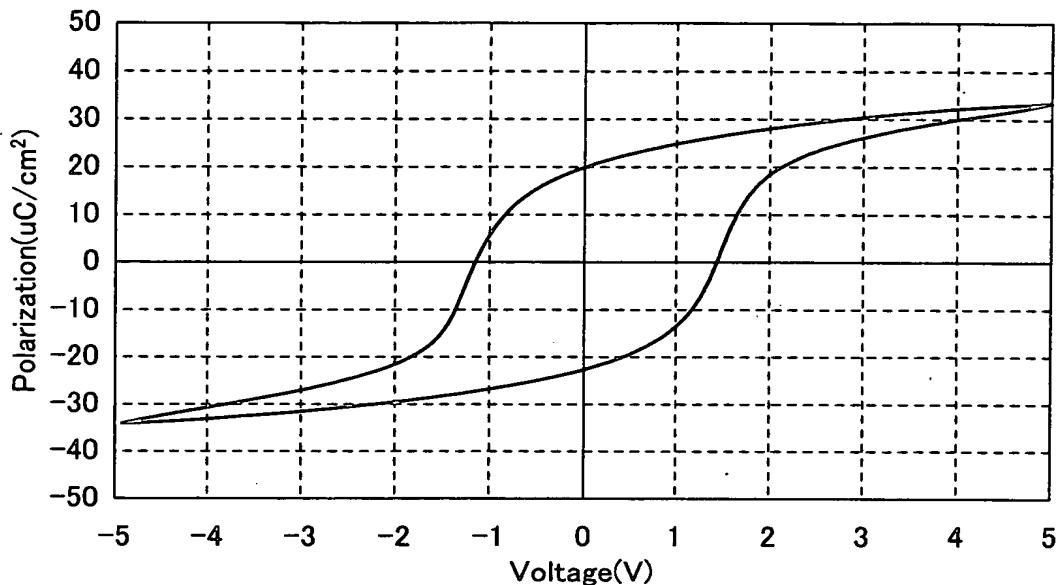


FIG. 13B
Solgel+MOD

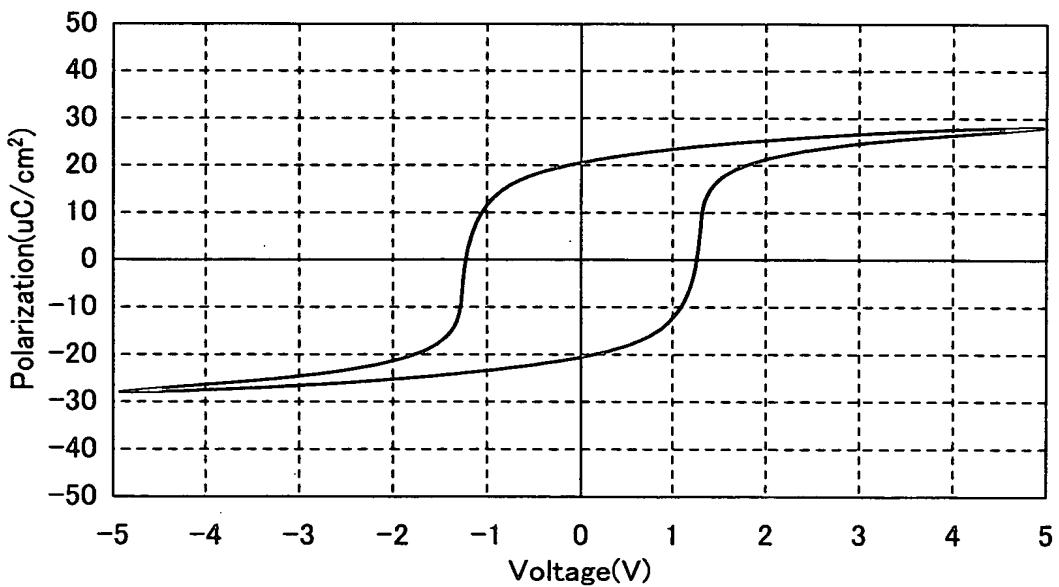


FIG. 14A

580°C

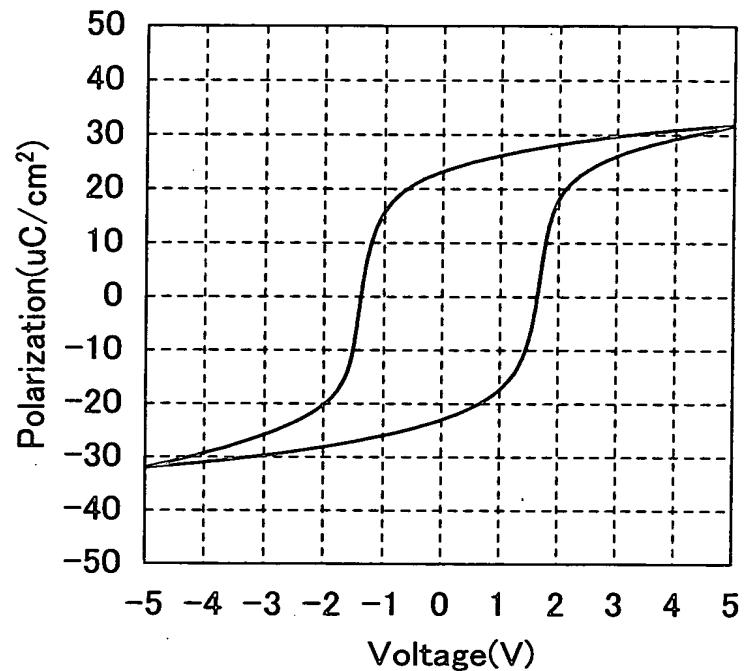


FIG. 14B

425°C

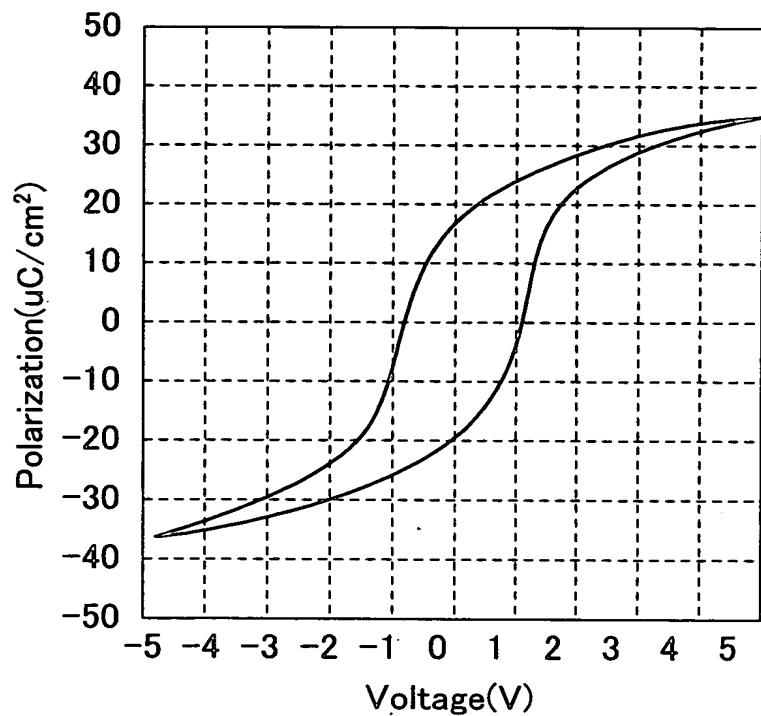


FIG. 15A

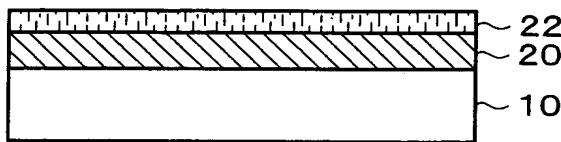


FIG. 15B

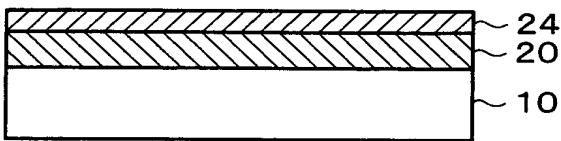


FIG. 15C

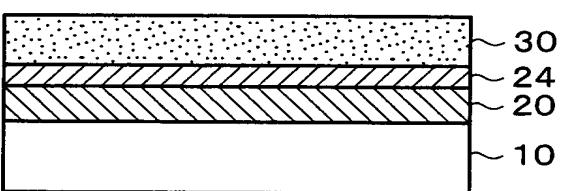


FIG. 15D

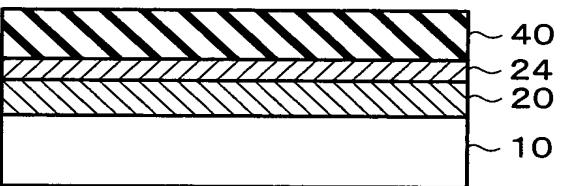


FIG. 15E

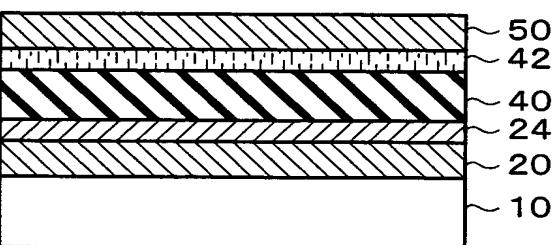


FIG. 15F

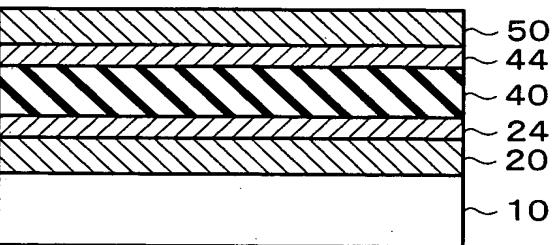


FIG. 16

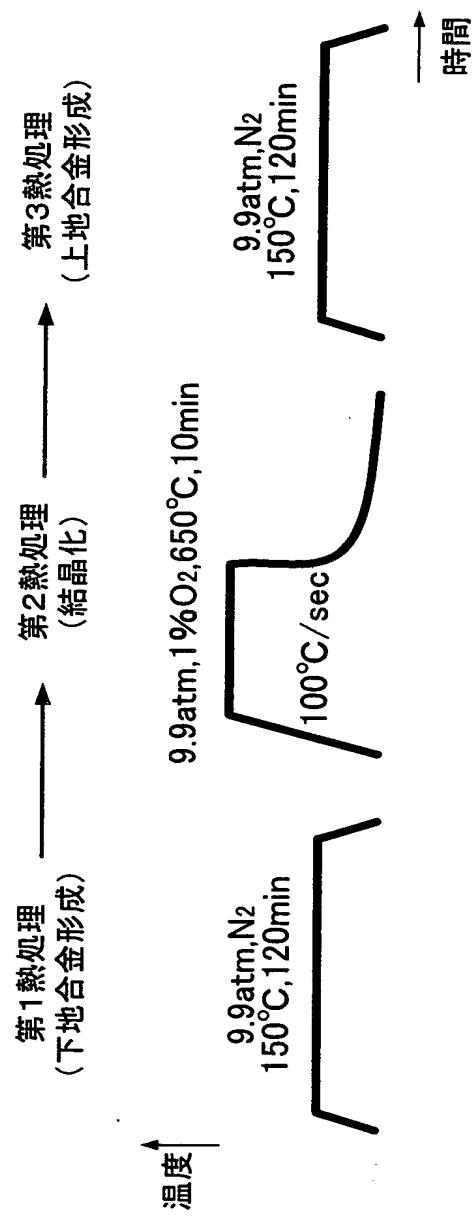


FIG. 17A

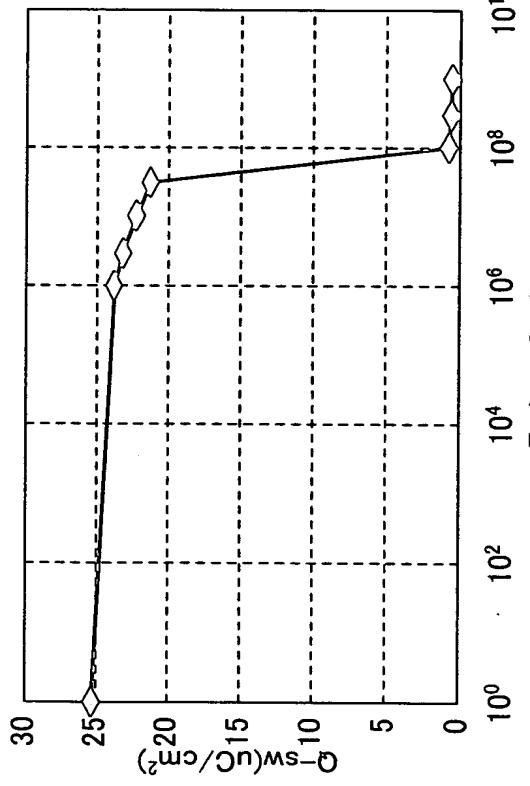


FIG. 17C

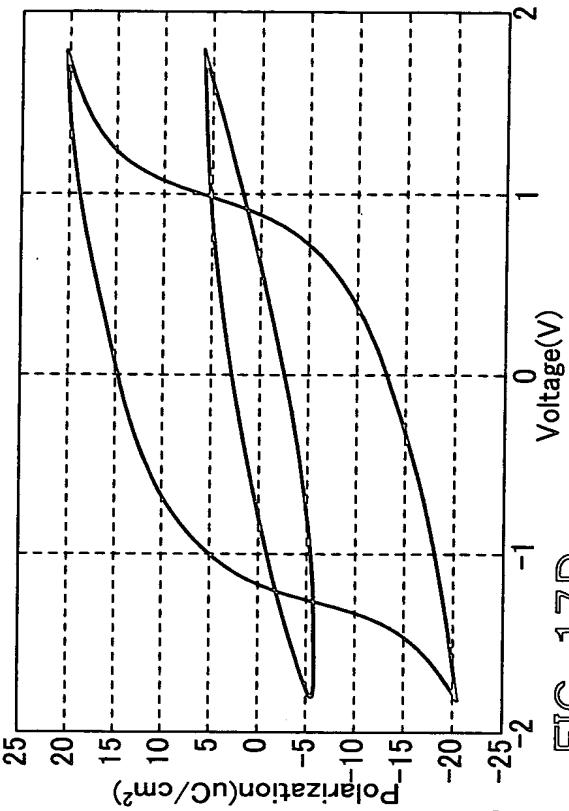


FIG. 17B

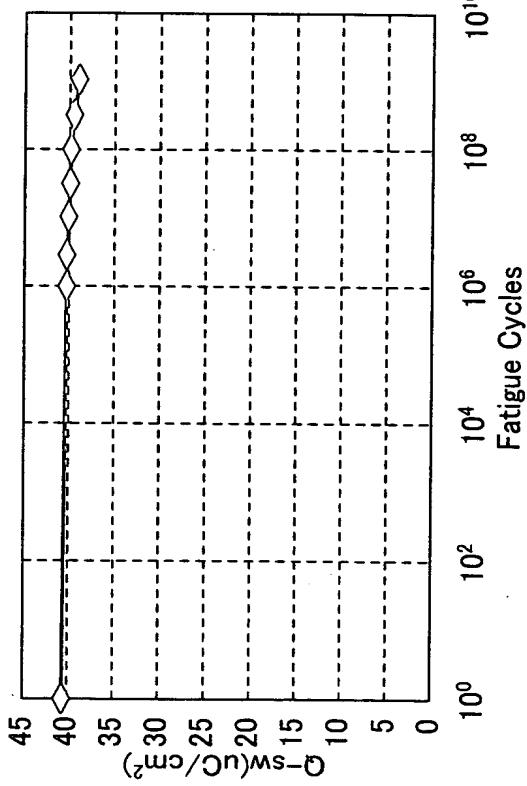


FIG. 17D

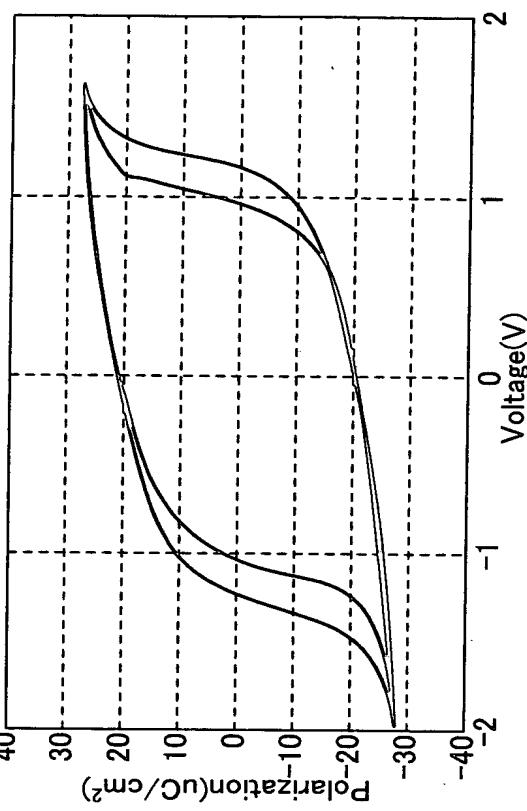


FIG. 18

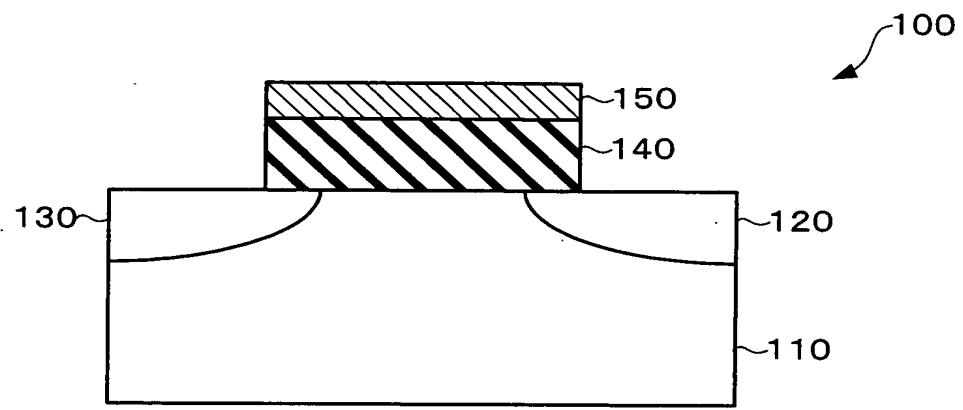


FIG. 19A

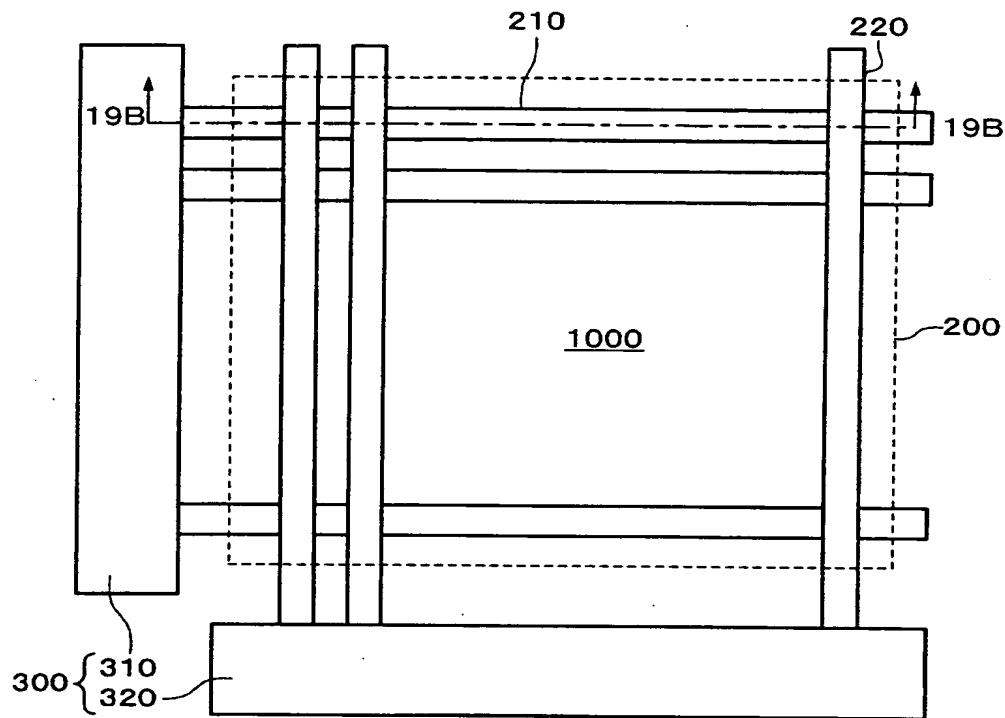


FIG. 19B

